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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/017,722	12/13/2001	Shijun Sun	8371-148	5348
75	90 09/30/2004		EXAM	INER
Stephen S. Ford			MALZAHN, DAVID H	
MARGER JONHSON & McCOLLOM, P.C. 1030 S.W. Morrison Street		P.C.	ART UNIT PAPER NUMBI	
Portland, OR 97205			2124	

DATE MAILED: 09/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s	
	10/017,722	SUN, SHIJU	N
Office Action Summary	Examiner	Art Unit	
•	David H. Malzahn	2124	
The MAILING DATE of this communication Period for Reply	n appears on the cover	sheet with the corresponden	ce address
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory properties to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b). Status	ON. FR 1.136(a). In no event, however, on. a reply within the statutory minimoleriod will apply and will expire Statute, cause the application to	er, may a reply be timely filed num of thirty (30) days will be considere IX (6) MONTHS from the mailing date o become ABANDONED (35 U.S.C. § 13	f this communication. 3).
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1) Responsive to communication(s) filed on			
· —	This action is non-fina		
3) Since this application is in condition for al	•	•	to the ments is
closed in accordance with the practice un	uer <i>Ex parte Quayle</i> , i	935 C.D. 11, 453 C.G. 213.	
Disposition of Claims			
4) Claim(s) 1-12 is/are pending in the application	ation.		
4a) Of the above claim(s) is/are wit	hdrawn from considera	tion.	•
5)⊠ Claim(s) <u>6 and 9-12</u> is/are allowed.			
6)⊠ Claim(s) <u>1-5,7 and 8</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction a	and/or election requiren	nent.	
Application Papers			
9)⊠ The specification is objected to by the Exa	miner.		
10)⊠ The drawing(s) filed on <u>13 December 200</u>		or b) objected to by the	Examiner.
Applicant may not request that any objection t			
Replacement drawing sheet(s) including the c	orrection is required if the	drawing(s) is objected to. See	37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by the	ne Examiner. Note the	attached Office Action or for	m PTO-152.
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for fo a) ☐ All b) ☐ Some * c) ☐ None of:	reign priority under 35	J.S.C. § 119(a)-(d) or (f).	
1. Certified copies of the priority docu	ments have been recei	/ed	
2. Certified copies of the priority documents of the priority documents.			
3. Copies of the certified copies of the		• • • • • • • • • • • • • • • • • • • •	-
application from the International B			onar Otage
* See the attached detailed Office action for a	,	••	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) 🔲 II	nterview Summary (PTO-413)	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-944) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date 9/3/02. 	B/08) 5) □ N	aper No(s)/Mail Date lotice of Informal Patent Application ther:	n (PTO-152)
S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office	ice Action Summary	Part of Paper No./I	Mail Date 20040928

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DETAILED ACTION

Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-5 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The claims are directed to a method or process for deriving a transform matrix according to a mathematical algorithm, i.e. the claims are to a process that performs a purely mathematical algorithm. The claims are non-statutory because the claimed process is not limited to a practical application of the mathematical algorithm in the technological arts, note MPEP 2106 (IV) (B) (2) (b) (ii).

Claim Rejections - 35 USC § 112

2. Claims 3, 4, 7 and 8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 3 and 4 are inconsistent with claim 1, i.e. claims 3 and 4 fail to fall within the scope of claim 1 because claim 1 is limited to deriving a transform matrix whereas claims 3 and 4 use transform matrices to process image data. Claims 7 and 8 call for an image block to have n pixels and m rows but the image block has n columns and m rows and nxm pixels.

Allowable Subject Matter

- 3. Claims 6 and 9-12 are allowed.
- 4. Claims 7 and 8 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Specification

5. Pages 2 and 7, third to last line; "pixels" should be "columns". In the "E" equations on pages 3-5 the number above the sigma sign should be reduced by 1.

Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David H. Malzahn whose telephone number is (703) 305-9762. The examiner can normally be reached on M-Th from 7:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki, can be reached on 703-305-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David H. Malzahn Primary Examiner Art Unit 2124